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SEQUENCE LISTING

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Kimura, Naoki
Fukuda, Tatsuya

<120> MODIFIED ANTIBODIES AGAINST CD22 AND USES THEREOF

<130> 14875-151US1

<150> PCT/JP2004/004696

<151> 2004-03-31

<150> JP 2003-96950

<151> 2003-03-31

<160> 36

<170> PatentIn version 3.1

<210> 1

<211> 260

<212> PRT

<213> Artificial

<220>

<223> an artificially synthesized peptide sequence

<400> 1

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1 5 10 15

Val His Ser Gln Val Gln Leu Gln Glu Ser Gly Ala Glu Leu Ser Lys
20 25 30

Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe
35 40 45

Thr Ser Tyr Trp Leu His Trp Ile Lys Gln Arg Pro Gly Gln Gly Leu
50 55 60

Glu Trp Ile Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn
65 70 75 80

Gln Asn Phe Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser
85 90 95

Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val
100 105 110

Tyr Tyr Cys Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly
115 120 125

Thr Thr Leu Thr Val Ser Ser Gly Gly Gly Gly Ser Asp Ile Gln Leu
130 135 140

Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Ala Gly Glu Asn Val Thr

145		150		155		160
Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser Ala Asn His Lys						
	165			170		175
Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu						
	180			185		190
Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val Pro Asp Arg Phe						
	195			200		205
Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Val						
	210			215		220
Gln Val Glu Asp Leu Ala Ile Tyr Tyr Cys His Gln Tyr Leu Ser Ser						
	225			230		235
Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Asp Tyr Lys Asp						
	245			250		255
Asp Asp Asp Lys						
	260					

<210> 2
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 <212> DNA
 <213> Artificial

<220>
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<220>
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 <222> (14)..(799)

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1 5 10	
gta act gca ggt gtc cac tcc cag gtc cag ctg cag gag tca ggg gct	97
Val Thr Ala Gly Val His Ser Gln Val Gln Leu Gln Glu Ser Gly Ala	
15 20 25	
gaa ctg tca aaa cct ggg gcc tca gtg aag atg tcc tgc aag gct tct	145
Glu Leu Ser Lys Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser	
30 35 40	
ggc tac acc ttt act agc tac tgg ctg cac tgg ata aaa cag agg cct	193
Gly Tyr Thr Phe Thr Ser Tyr Trp Leu His Trp Ile Lys Gln Arg Pro	
45 50 55 60	
gga cag ggt ctg gaa tgg att gga tac att aat cct agg aat gat tat	241
Gly Gln Gly Leu Glu Trp Ile Gly Tyr Ile Asn Pro Arg Asn Asp Tyr	
65 70 75	

act gag tac aat cag aac ttc aag gac aag gcc aca ttg act gca gac	289
Thr Glu Tyr Asn Gln Asn Phe Lys Asp Lys Ala Thr Leu Thr Ala Asp	
80 85 90	
aaa tcc tcc agc aca gcc tac atg caa ctg agc agc ctg aca tct gag	337
Lys Ser Ser Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu	
95 100 105	
gac tct gca gtc tat tac tgt gca aga agg gat att act acg ttc tac	385
Asp Ser Ala Val Tyr Tyr Cys Ala Arg Arg Asp Ile Thr Thr Phe Tyr	
110 115 120	
tgg ggc caa ggc acc act ctc aca gtc tcc tcg ggt gga ggc ggt agc	433
Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser Gly Gly Gly Gly Ser	
125 130 135 140	
gac att cag ctg acc cag tct cca tca tct ctg gct gtg tct gca gga	481
Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Ala Gly	
145 150 155	
gaa aac gtc act atg agc tgt aag tcc agt caa agt gtt tta tac agt	529
Glu Asn Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser	
160 165 170	
gca aat cac aag aac tac ttg gcc tgg tac cag cag aaa cca ggg cag	577
Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln	
175 180 185	
tct cct aaa ctg ctg atc tac tgg gca tcc act agg gaa tct ggt gtc	625
Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val	
190 195 200	
cct gat cgc ttc aca ggc agc gga tct ggg aca gat ttt act ctt acc	673
Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr	
205 210 215 220	
atc agc aga gta caa gtt gaa gac ctg gca att tat tat tgt cac caa	721
Ile Ser Arg Val Gln Val Glu Asp Leu Ala Ile Tyr Tyr Cys His Gln	
225 230 235	
tac ctc tcc tcg tgg acg ttc ggt gga ggg acc aag ctg gag atc aaa	769
Tyr Leu Ser Ser Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys	
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Asp Tyr Lys Asp Asp Asp Asp Lys	
255 260	

<210> 3

<211> 262

<212> PRT

<213> Artificial

<220>

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 20 25 30
 Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Ala Phe
 35 40 45
 Ser Ile Tyr Asp Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu
 50 55 60
 Glu Trp Val Ala Tyr Ile Ser Ser Gly Gly Gly Thr Thr Tyr Tyr Pro
 65 70 75 80
 Asp Thr Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
 85 90 95
 Thr Leu Tyr Leu Gln Met Ser Ser Leu Lys Ser Glu Asp Thr Ala Met
 100 105 110
 Tyr Tyr Cys Ala Arg His Ser Gly Tyr Gly Ser Ser Tyr Gly Val Leu
 115 120 125
 Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala Gly Gly
 130 135 140
 Gly Gly Ser Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala
 145 150 155 160
 Ser Leu Gly Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile
 165 170 175
 Ser Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys
 180 185 190
 Leu Leu Ile Tyr Tyr Thr Ser Ile Leu His Ser Gly Val Pro Ser Lys
 195 200 205
 Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile Ser Asn
 210 215 220
 Leu Glu Gln Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr
 225 230 235 240
 Leu Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Asp Tyr
 245 250 255
 Lys Asp Asp Asp Asp Lys
 260

<210> 4

<211> 816

<212> DNA

<213> Artificial

<220>

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<220>

<221> CDS

<222> (14)..(805)

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act tta aaa ggt gtg aag tgt gaa gtg cag ctg gtg gag tct ggg gga	97
Thr Leu Lys Gly Val Lys Cys Glu Val Gln Leu Val Glu Ser Gly Gly	
15 20 25	
ggc tta gtg aag cct gga ggg tcc ctg aaa ctc tcc tgt gca gcc tct	145
Gly Leu Val Lys Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser	
30 35 40	
gga ttc gct ttc agt atc tat gac atg tct tgg gtt cgc cag act ccg	193
Gly Phe Ala Phe Ser Ile Tyr Asp Met Ser Trp Val Arg Gln Thr Pro	
45 50 55 60	
gag aag agg ctg gag tgg gtc gca tac att agt agt ggt ggt ggt acc	241
Glu Lys Arg Leu Glu Trp Val Ala Tyr Ile Ser Ser Gly Gly Gly Thr	
65 70 75	
acc tac tat cca gac act gtg aag ggc cga ttc acc atc tcc aga gac	289
Thr Tyr Tyr Pro Asp Thr Val Lys Gly Arg Phe Thr Ile Ser Arg Asp	
80 85 90	
aat gcc aag aac acc ctg tac ctg caa atg agc agt ctg aag tct gag	337
Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Ser Ser Leu Lys Ser Glu	
95 100 105	
gac aca gcc atg tat tac tgt gca aga cat agt ggc tac ggt agt agc	385
Asp Thr Ala Met Tyr Tyr Cys Ala Arg His Ser Gly Tyr Gly Ser Ser	
110 115 120	
tac ggg gtt ttg ttt gct tac tgg ggc caa ggg act ctg gtc act gtc	433
Tyr Gly Val Leu Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val	
125 130 135 140	
tct gca ggt gga ggc ggt agc gat atc cag atg acc cag act aca tcc	481
Ser Ala Gly Gly Gly Gly Ser Asp Ile Gln Met Thr Gln Thr Thr Ser	
145 150 155	
tcc ctg tct gcc tct ctg gga gac aga gtc acc att agt tgc agg gca	529
Ser Leu Ser Ala Ser Leu Gly Asp Arg Val Thr Ile Ser Cys Arg Ala	
160 165 170	
agt cag gac att agc aat tat tta aac tgg tat cag cag aaa cca gat	577
Ser Gln Asp Ile Ser Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Asp	
175 180 185	

gga act gtt aaa ctc ctg atc tac tac aca tca ata tta cac tca gga 625
 Gly Thr Val Lys Leu Leu Ile Tyr Tyr Thr Ser Ile Leu His Ser Gly
 190 195 200

gtc cca tca aag ttc agt ggc agt ggg tct gga aca gat tat tct ctc 673
 Val Pro Ser Lys Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Ser Leu
 205 210 215 220

acc att agc aac ctg gag caa gaa gat ttt gcc act tac ttt tgc caa 721
 Thr Ile Ser Asn Leu Glu Gln Glu Asp Phe Ala Thr Tyr Phe Cys Gln
 225 230 235

cag ggt aat acg ctt ccg tgg acg ttc ggt gga ggc acc aag ctg gaa 769
 Gln Gly Asn Thr Leu Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu
 240 245 250

atc aaa gac tac aag gat gac gac gat aag tga taa gcggccgcaa t 816
 Ile Lys Asp Tyr Lys Asp Asp Asp Asp Lys
 255 260

<210> 5
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 <213> Artificial

<220>
 <223> an artificially synthesized peptide sequence

<400> 5
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 Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Trp Leu His Trp Ile Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
 50 55 60
 Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80
 Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Leu
 100 105 110
 Thr Val Ser Ser
 115

<210> 6

<211> 348
 <212> DNA
 <213> Artificial

<220>
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<220>
 <221> CDS
 <222> (1)..(348)

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 1 5 10 15
 tca gtg aag atg tcc tgc aag gct tct ggc tac acc ttt act agc tac 96
 Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 tgg ctg cac tgg ata aaa cag agg cct gga cag ggt ctg gaa tgg att 144
 Trp Leu His Trp Ile Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 gga tac att aat cct agg aat gat tat act gag tac aat cag aac ttc 192
 Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
 50 55 60
 aag gac aag gcc aca ttg act gca gac aaa tcc tcc agc aca gcc tac 240
 Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80
 atg caa ctg agc agc ctg aca tct gag gac tct gca gtc tat tac tgt 288
 Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
 85 90 95
 gca aga agg gat att act acg ttc tac tgg ggc caa ggc acc act ctc 336
 Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Leu
 100 105 110
 aca gtc tcc tcg 348
 Thr Val Ser Ser
 115

<210> 7
 <211> 112
 <212> PRT
 <213> Artificial

<220>
 <223> an artificially synthesized peptide sequence

<400> 7
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 1 5 10 15

Glu Asn Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
 20 25 30
 Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Arg Val Gln Val Glu Asp Leu Ala Ile Tyr Tyr Cys His Gln
 85 90 95
 Tyr Leu Ser Ser Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

<210> 8
 <211> 336
 <212> DNA
 <213> Artificial

<220>
 <223> an artificially synthesized DNA sequence

<220>
 <221> CDS
 <222> (1)..(336)

<400> 8
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 1 5 10 15
 gaa aac gtc act atg agc tgt aag tcc agt caa agt gtt tta tac agt 96
 Glu Asn Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
 20 25 30
 gca aat cac aag aac tac ttg gcc tgg tac cag cag aaa cca ggg cag 144
 Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 tct cct aaa ctg ctg atc tac tgg gca tcc act agg gaa tct ggt gtc 192
 Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 cct gat cgc ttc aca ggc agc gga tct ggg aca gat ttt act ctt acc 240
 Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 atc agc aga gta caa gtt gaa gac ctg gca att tat tat tgt cac caa 288
 Ile Ser Arg Val Gln Val Glu Asp Leu Ala Ile Tyr Tyr Cys His Gln
 85 90 95
 tac ctc tcc tcg tgg acg ttc ggt gga ggg acc aag ctg gag atc aaa 336

Tyr Leu Ser Ser Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210>	9
<211>	123
<212>	PRT
<213>	Artificial

<220>
<223> an artificially synthesized peptide sequence

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Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Ala Phe Ser Ile Tyr
20 25 30

Asp Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
35 40 45

Ala Tyr Ile Ser Ser Gly Gly Gly Thr Thr Tyr Tyr Pro Asp Thr Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Ser Ser Leu Lys Ser Glu Asp Thr Ala Met Tyr Tyr Cys
85 90 95

Ala Arg His Ser Gly Tyr Gly Ser Ser Tyr Gly Val Leu Phe Ala Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala
115 120

<210>	10
<211>	369
<212>	DNA
<213>	Artificial

<220>
<223> an artificially synthesized DNA sequence

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<221> CDS  
<222> (1) .. (369)
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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

tcc ctg aaa ctc tcc tgt gca gcc tct gga ttc gct ttc agt atc tat 96
Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Ala Phe Ser Ile Tyr

20	25	30	
gac atg tct tgg gtt cgc cag act ccg gag aag agg ctg gag tgg gtc			144
Asp Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val			
35	40	45	
gca tac att agt agt ggt ggt ggt acc acc tac tat cca gac act gtg			192
Ala Tyr Ile Ser Ser Gly Gly Gly Thr Thr Tyr Tyr Pro Asp Thr Val			
50	55	60	
aag ggc cga ttc acc atc tcc aga gac aat gcc aag aac acc ctg tac			240
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr			
65	70	75	80
ctg caa atg agc agt ctg aag tct gag gac aca gcc atg tat tac tgt			288
Leu Gln Met Ser Ser Leu Lys Ser Glu Asp Thr Ala Met Tyr Tyr Cys			
85	90	95	
gca aga cat agt ggc tac ggt agt agc tac ggg gtt ttg ttt gct tac			336
Ala Arg His Ser Gly Tyr Gly Ser Ser Tyr Gly Val Leu Phe Ala Tyr			
100	105	110	
tgg ggc caa ggg act ctg gtc act gtc tct gca			369
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala			
115	120		
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<212> PRT			
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<223> an artificially synthesized peptide sequence			
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Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Ser Asn Tyr			
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Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys Leu Leu Ile			
35	40	45	
Tyr Tyr Thr Ser Ile Leu His Ser Gly Val Pro Ser Lys Phe Ser Gly			
50	55	60	
Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile Ser Asn Leu Glu Gln			
65	70	75	80
Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Trp			
85	90	95	
Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys			
100	105		

<210> 12
 <211> 321
 <212> DNA
 <213> Artificial

<220>
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<220>
 <221> CDS
 <222> (1)..(321)

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 1 5 10 15
 gac aga gtc acc att agt tgc agg gca agt cag gac att agc aat tat 96
 Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Ser Asn Tyr
 20 25 30
 tta aac tgg tat cag cag aaa cca gat gga act gtt aaa ctc ctg atc 144
 Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys Leu Leu Ile
 35 40 45
 tac tac aca tca ata tta cac tca gga gtc cca tca aag ttc agt ggc 192
 Tyr Tyr Thr Ser Ile Leu His Ser Gly Val Pro Ser Lys Phe Ser Gly
 50 55 60
 agt ggg tct gga aca gat tat tct ctc acc att agc aac ctg gag caa 240
 Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile Ser Asn Leu Glu Gln
 65 70 75 80
 gaa gat ttt gcc act tac ttt tgc caa cag ggt aat acg ctt ccg tgg 288
 Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Trp
 85 90 95
 acg ttc ggt gga ggc acc aag ctg gaa atc aaa 321
 Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 13
 <211> 88
 <212> DNA
 <213> Artificial

<220>
 <223> an artificially synthesized DNA sequence

<400> 13
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 tgtccactcc caggtccagc tgcaggag 88

<210> 14
 <211> 90
 <212> DNA
 <213> Artificial

<220>
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<400> 14
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 gaggcctgga cagggctctgg aatggattgg 90

<210> 15
 <211> 87
 <212> DNA
 <213> Artificial

<220>
 <223> an artificially synthesized DNA sequence

<400> 15
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 gagcagcctg acatctgagg actctgc 87

<210> 16
 <211> 88
 <212> DNA
 <213> Artificial

<220>
 <223> an artificially synthesized DNA sequence

<400> 16
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 ccatcatctc tggctgtgtc tgcaggag 88

<210> 17
 <211> 91
 <212> DNA
 <213> Artificial

<220>
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<400> 17
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 actgctgatc tactgggcat ccactaggga a 91

<210> 18

<211> 105
 <212> DNA
 <213> Artificial

<220>
 <223> an artificially synthesized DNA sequence

<400> 18
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 gcaatttatt attgtcacca atacctctcc tcgtggacgt tcggt 105

<210> 19
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 <212> DNA
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<220>
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<400> 19
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 ccctgactcc tgcagctgga cctgggagtg g 91

<210> 20
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 <212> DNA
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<220>
 <223> an artificially synthesized DNA sequence

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 attaattgtat ccaatccatt ccagaccctg tccagg 96

<210> 21
 <211> 105
 <212> DNA
 <213> Artificial

<220>
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<400> 21
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 tgcacagtaa tagactgcag agtcctcaga tgtcaggctg ctgag 105

<210> 22
 <211> 102

<212> DNA
<213> Artificial

<220>
<223> an artificially synthesized DNA sequence

<400> 22
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catagtgcgcg ttttctcctg cagacacagc cagagatgat gg 102

<210> 23
<211> 84
<212> DNA
<213> Artificial

<220>
<223> an artificially synthesized DNA sequence

<400> 23
aagagtaaaa tctgtcccag atccgctgcc tgtgaagcga tcagggacac cagattccct 60
agtggatgcc cagtagatca gcag 84

<210> 24
<211> 93
<212> DNA
<213> Artificial

<220>
<223> an artificially synthesized DNA sequence

<400> 24
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cctccaccga acgtccacga ggagaggtat tgg 93

<210> 25
<211> 92
<212> DNA
<213> Artificial

<220>
<223> an artificially synthesized DNA sequence

<400> 25
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tgtgaagtgt gaagtgcagc tgggtggagtc tg 92

<210> 26
<211> 89
<212> DNA

<213> Artificial

<220>

<223> an artificially synthesized DNA sequence

<400> 26

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agaagaggct ggagtgggtc gcatacatt 89

<210> 27

<211> 86

<212> DNA

<213> Artificial

<220>

<223> an artificially synthesized DNA sequence

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tctgaagtct gaggacacag ccatgt 86

<210> 28

<211> 98

<212> DNA

<213> Artificial

<220>

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cggtagcgat atccagatga cccagactac atcctccc 98

<210> 29

<211> 114

<212> DNA

<213> Artificial

<220>

<223> an artificially synthesized DNA sequence

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